

Power Plant Improvement Initiative

Program Overview

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Feb. 15, 2001



Power Plant Improvement Initiative (PPII, or π^2)

- **Created by Public Law 106-291**
 - **\$95 Million Appropriation**
 - **Program Solicitation Issued Feb. 6, 2001**
- **Projects**
 - **Project Applications Due April 19, 2001**
 - **At Least 50% Non-Federal Funding**
 - **DOE Funds Subject to Repayment**
- **<http://www.netl.doe.gov/ppii/index.html/>**



Power Plant Improvement Initiative

- **Projects Must Offer Significant Improvements in Power Plant Performance Leading to Enhanced Electric Reliability**
- **Improvements in:**
 - **Efficiency of Electricity Production**
 - **Reducing Environmental Impacts**
 - **Cost-Competitiveness**
- **Applicable to a Large Portion of Existing Plants**
- **Large Enough Scale to be Deployed over Next Few Years**



Power Plant Improvement Initiative

- **Feb. 6, 2001 - Solicitation Issued**
- **Apr. 19, 2001 - Applications Due**
- **Aug. 22, 2001 - Selections Made**
- **Selection + 6 months - Financial Commitments in Place & Cooperative Agreement Awarded**
- **Selection + 12 Months - BP1 Completed; EIV Submitted & Acceptable to DOE**



Program Areas of Interest (Page 1 of 2)

- **Advanced Combustion or Gasification Systems & Components**
- **Advanced NO_x Control Technology**
- **CO₂ Capture, Utilization or Sequestration**
- **Combustion or Gasification System Improvements**
- **Co-Production**
- **Fine Particulate Control**
- **Hydrogen Chloride Control**



Program Areas of Interest (Page 2 of 2)

- **Mercury Control Technology**
- **Process Control Systems**
- **Reduction of Solid & Liquid Discharges, or By-Product Utilization**
- **Repowering**
- **Steam Cycle Improvements**
- **Wet and Dry Scrubbers for SO₂ Control**



Technical Evaluation Criteria

- 1) Technical Merit of Proposed Technology - 40%**
- 2) Commercial Viability & Market Potential of Proposed Technology - 30%**
- 3) Management Approach & Capabilities of Project Team - 30%**



Factors in Project Selection

Technical Score

+

Business and Financial Evaluation

+

Program Policy Factors

